

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

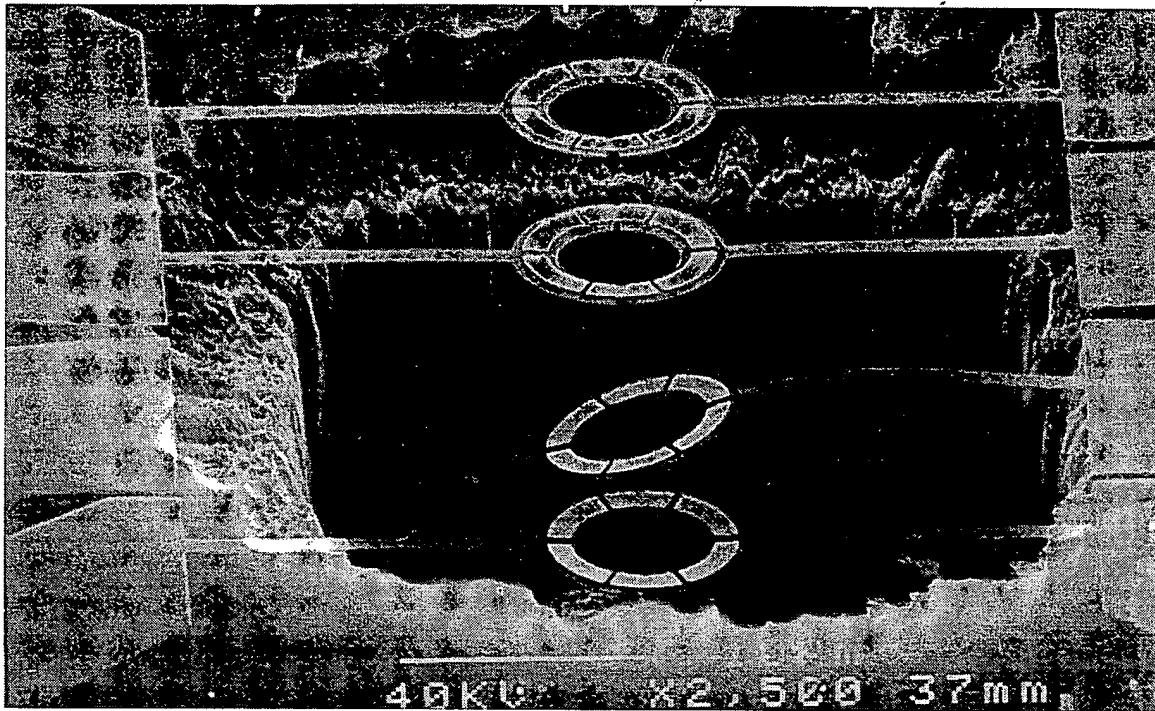


Fig. 1

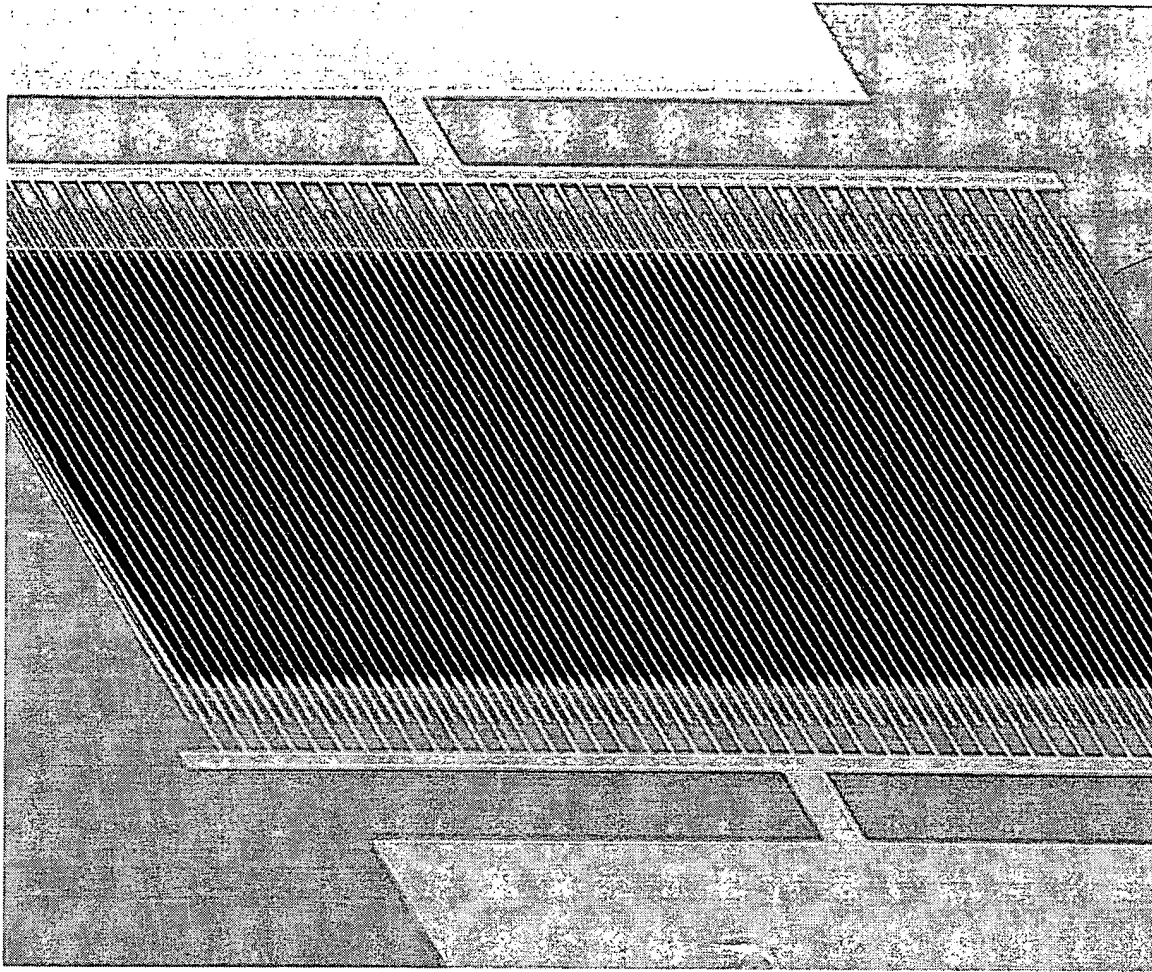


Fig. 2

Fig. 3a

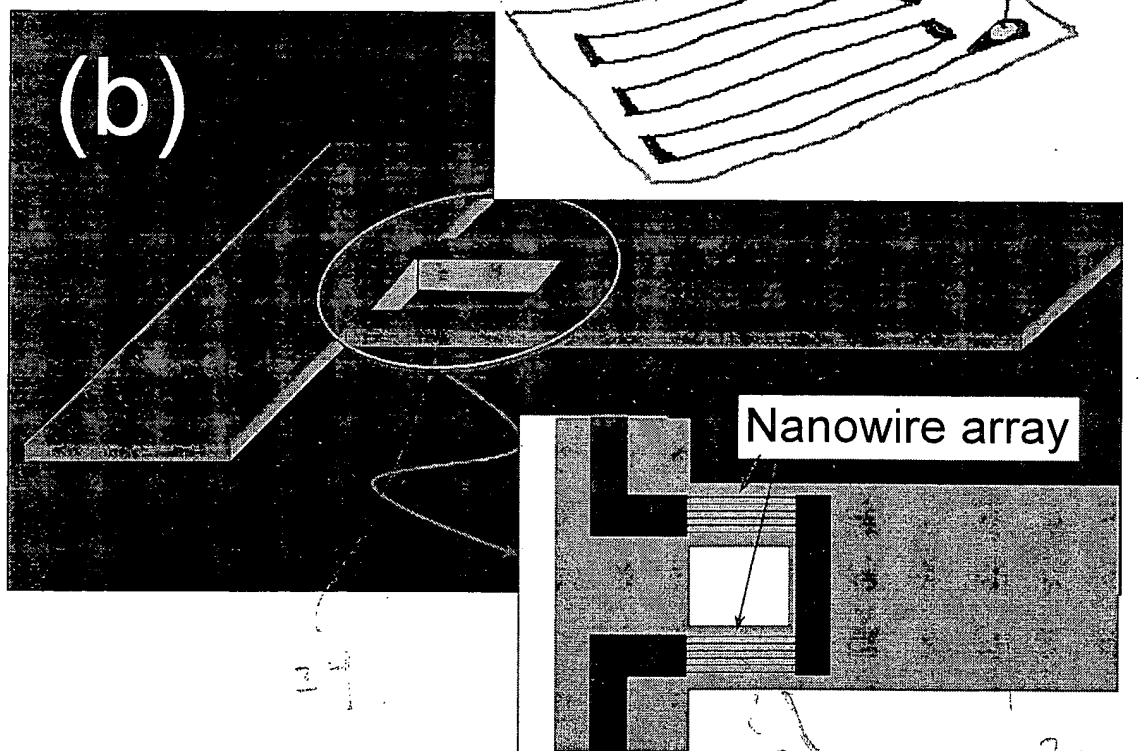
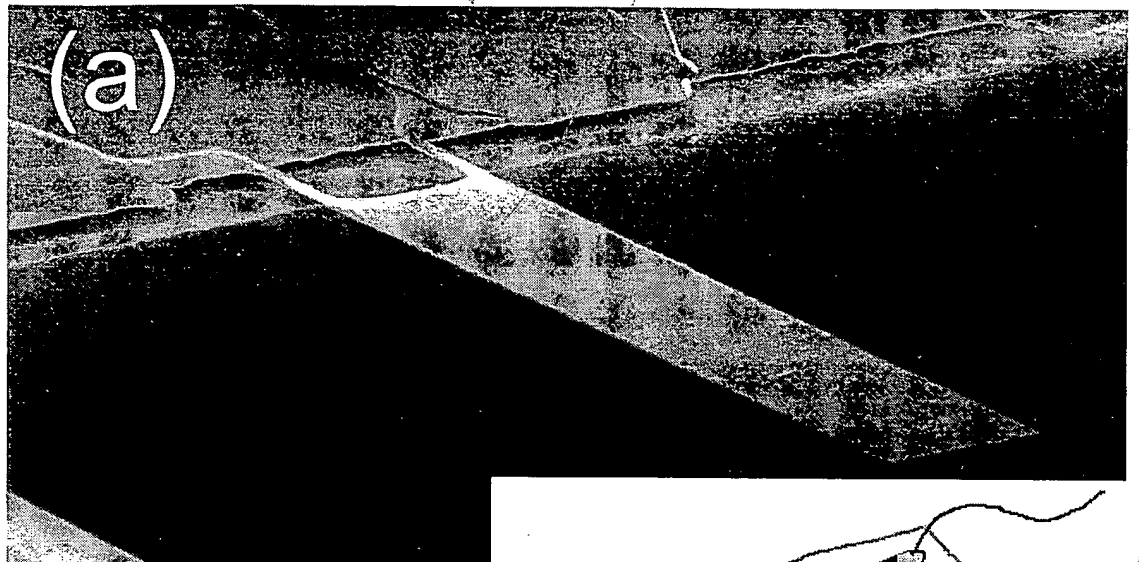
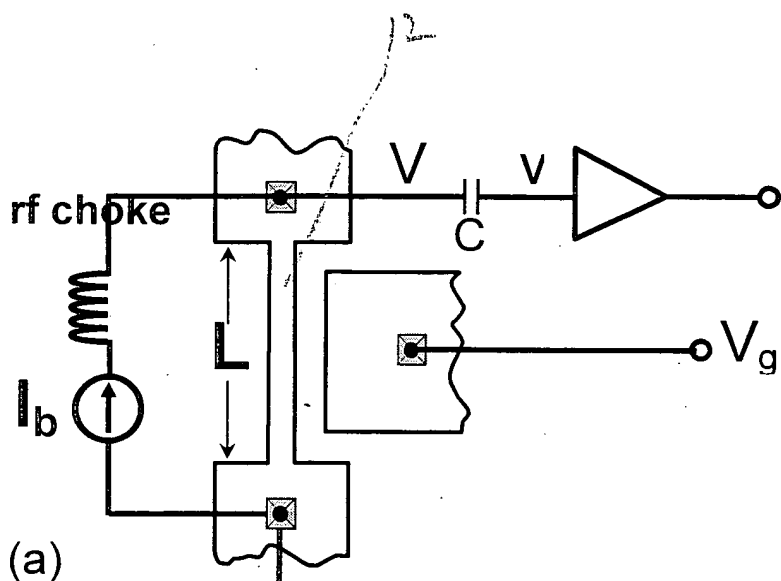
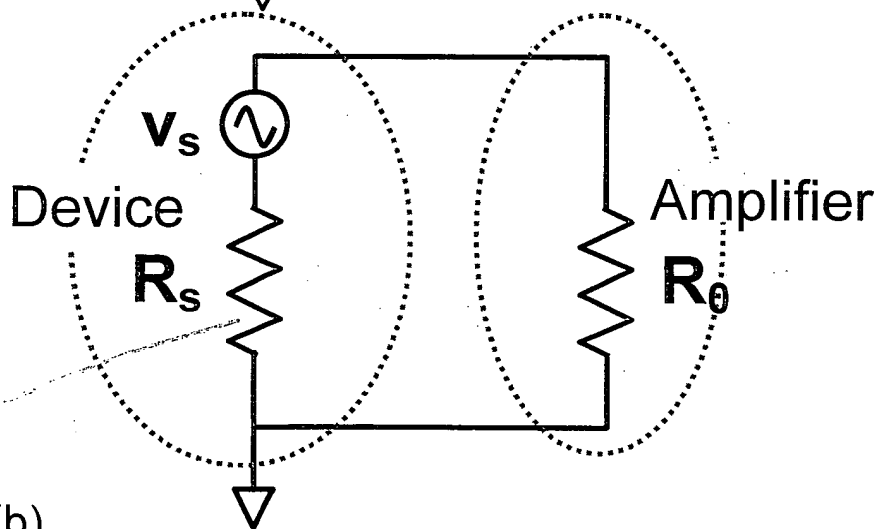


Fig. 3b

Fig. 4a



(a)



(b)

Fig. 4b

Fig. 5a

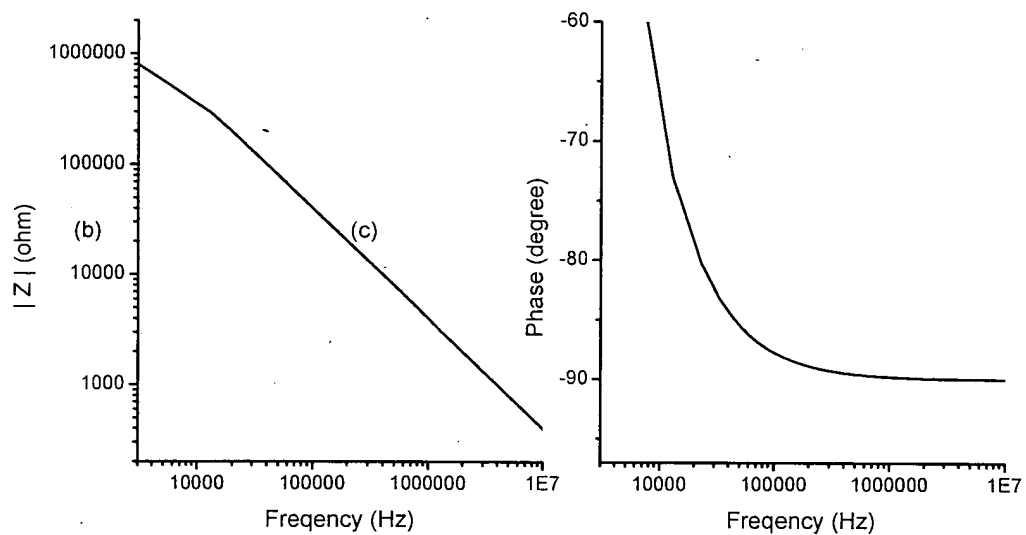
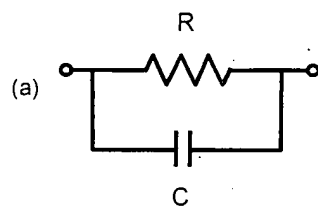


Fig. 5b

Fig. 5c

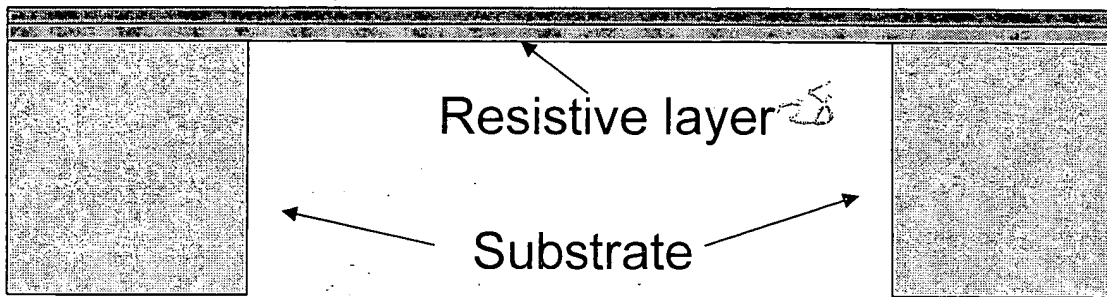


Fig. 6

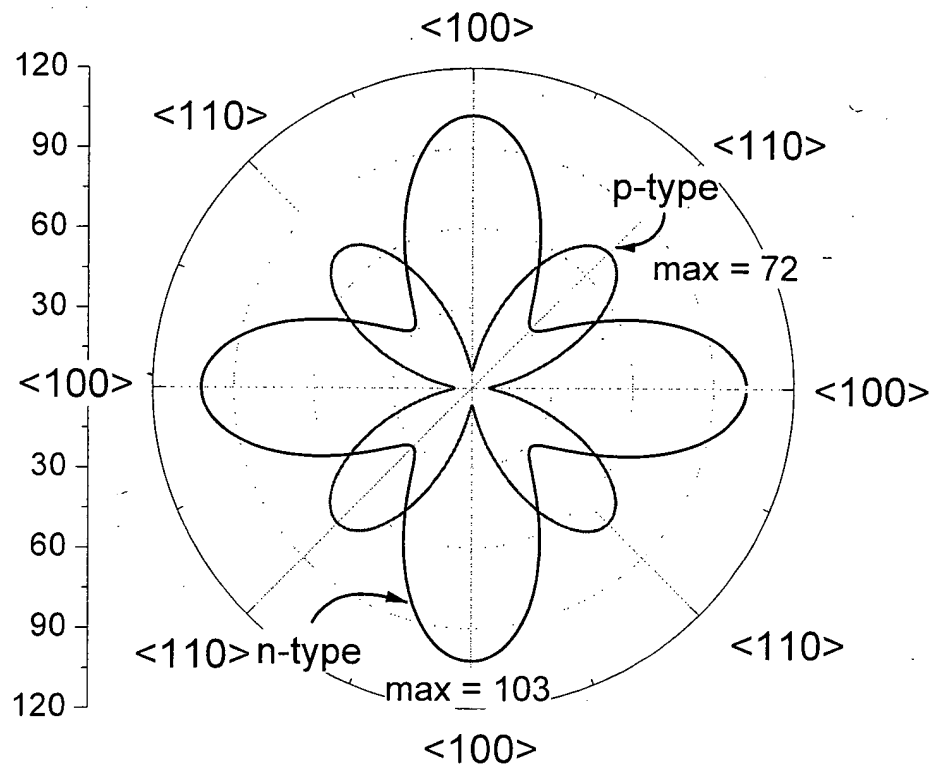


Fig. 7



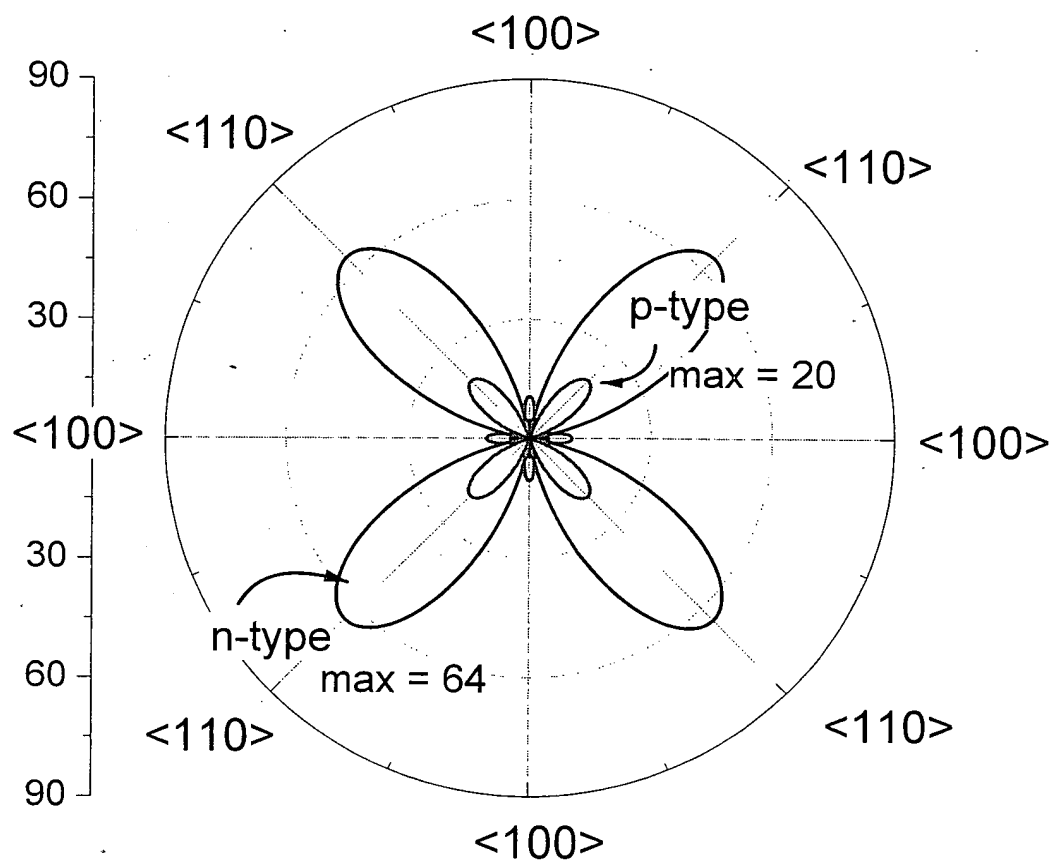


Fig. 8

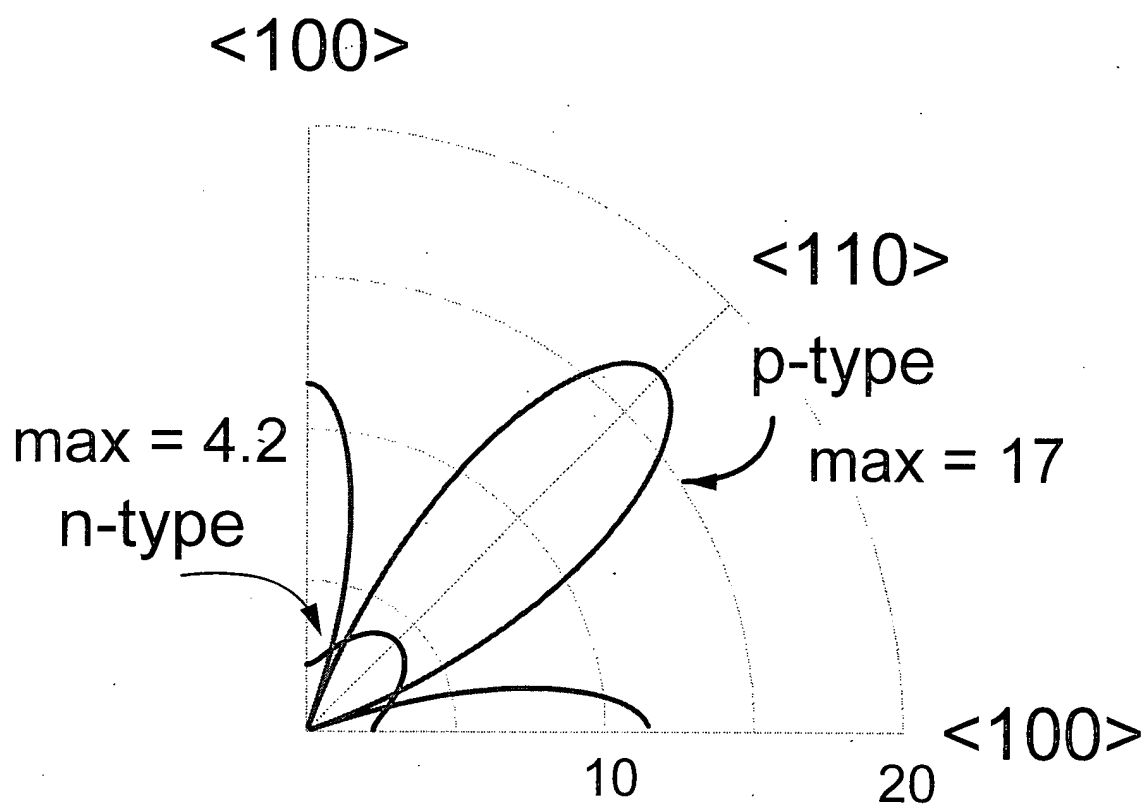
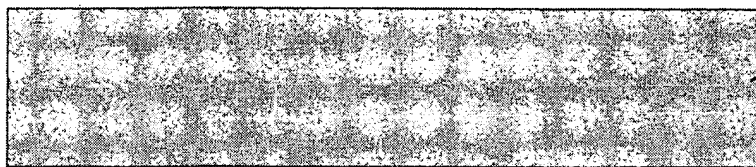


Fig. 9

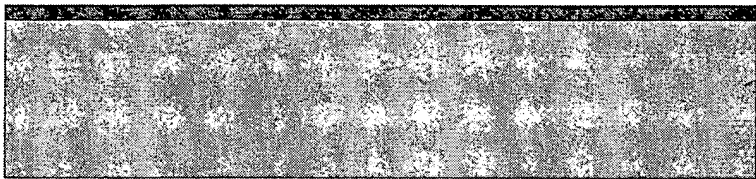
Det	HV	Mag	WD	Pressure	3/10/2004	HFV	
ETD	30.0 kV	6556x	35.7 mm	---	7:00:27 PM	20.62 $\mu$ m	5.0 $\mu$ m
							Gold/SiC

- 1, 2.58MHz
- 2, 3.39MHz
- 4, 2.96MHz
- 5, 2.83MHz
- 6, 2.71MHz
- 7, 2.85MHz
- 9, 2.83MHz
- 10, 2.83MHz
- 13, 2.97MHz
- 14, 2.79MHz
- 17, 2.43MHz
- 18, 2.97MHz

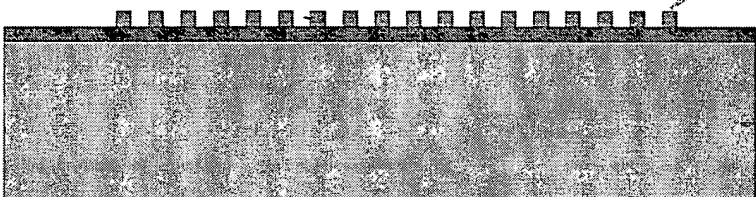
418410



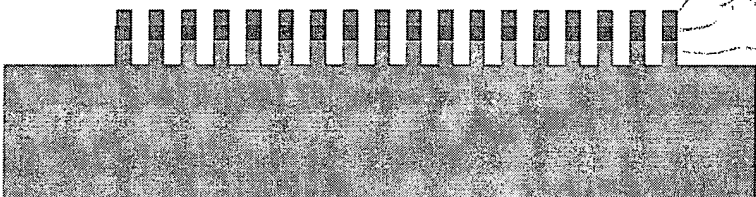
40  
Fig. 11a



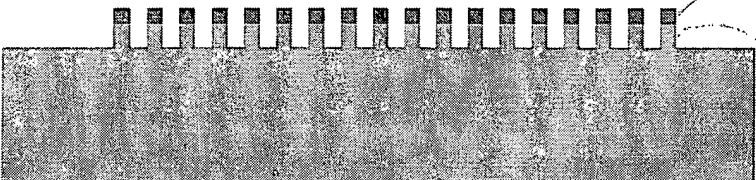
42  
40  
Fig. 11b



44  
42  
40  
Fig. 11c



44  
42  
40  
Fig. 11d



42  
40  
Fig. 11e



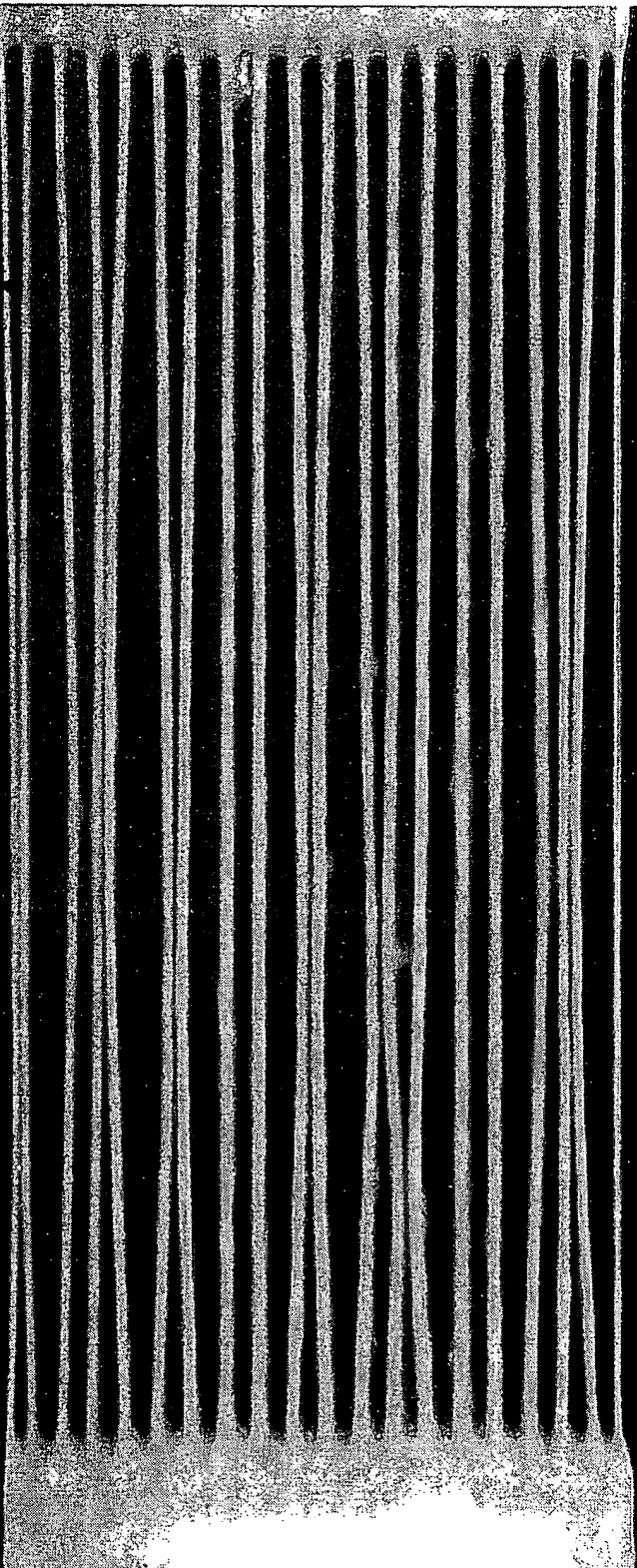
42

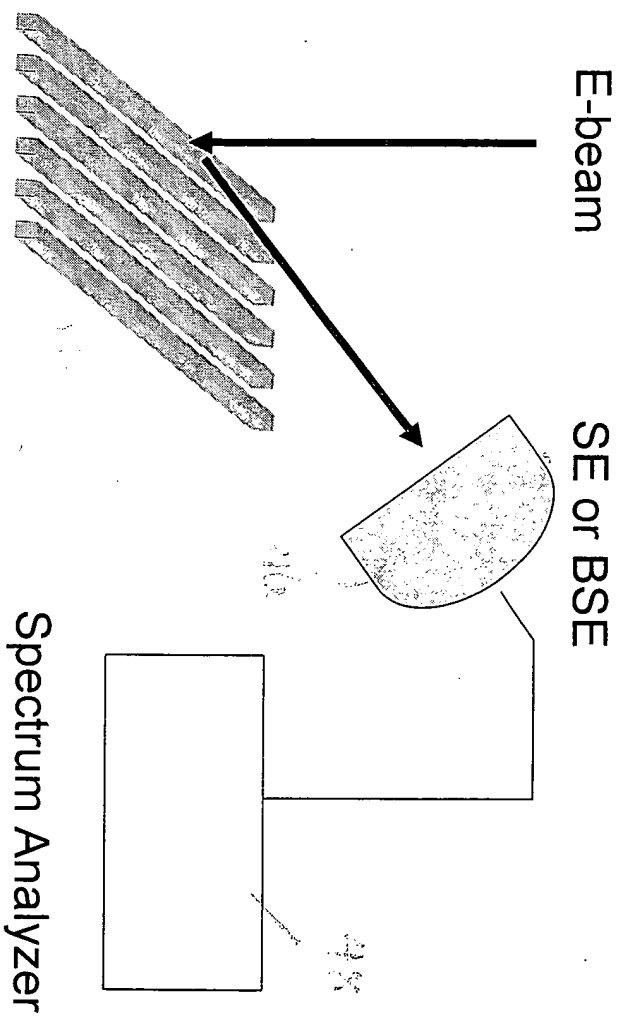


40  
Fig. 11f

Fig. 12

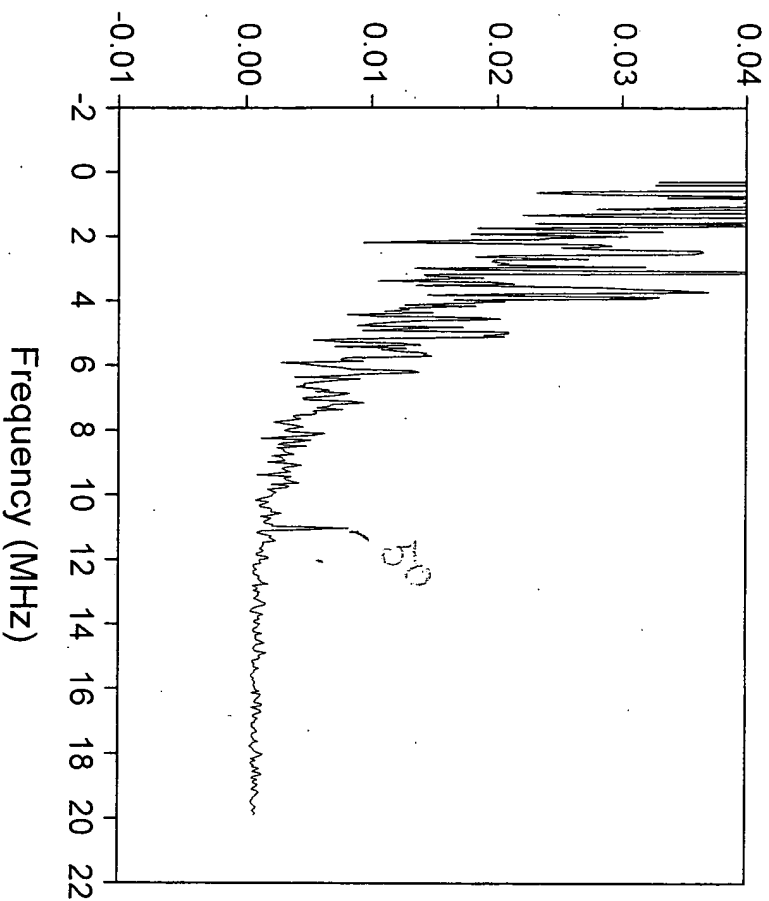
Det	HV	Mag	WD	Pressure	HFV	
ETD	30.0 kV	15000x	4.8 mm	---	3/18/2004	9.41:54 AM
					9.01 $\mu$ m	Gold Beam





Line 2

Fig. 14  
(a)



Line 20

Fig. 14  
(b)

$Q=1800$

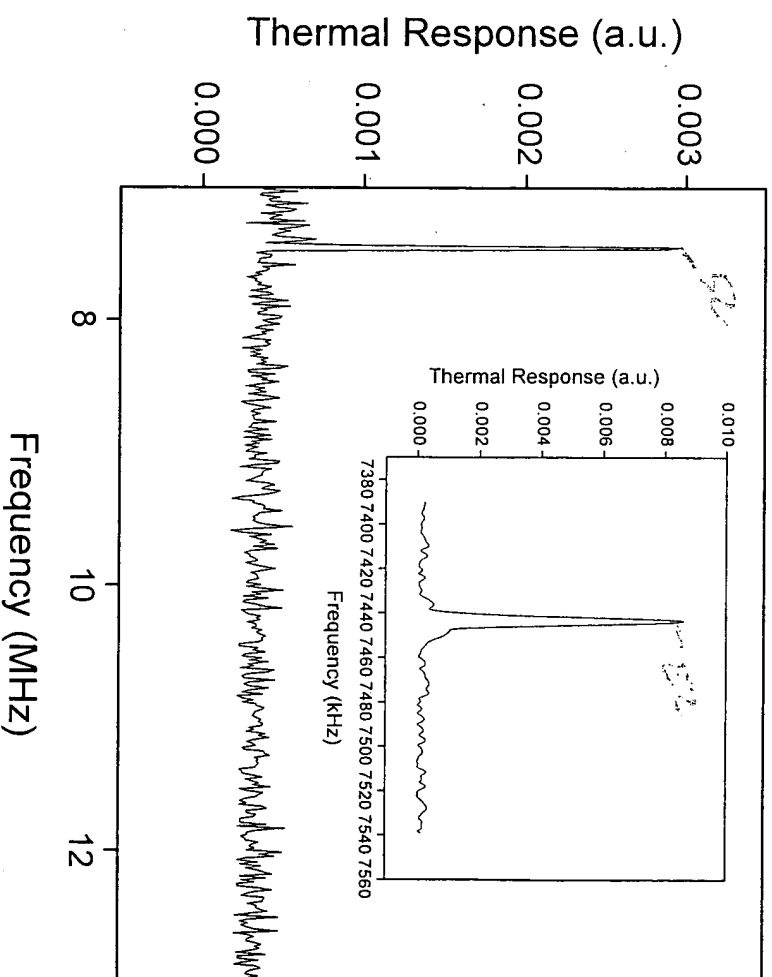


Fig. 15

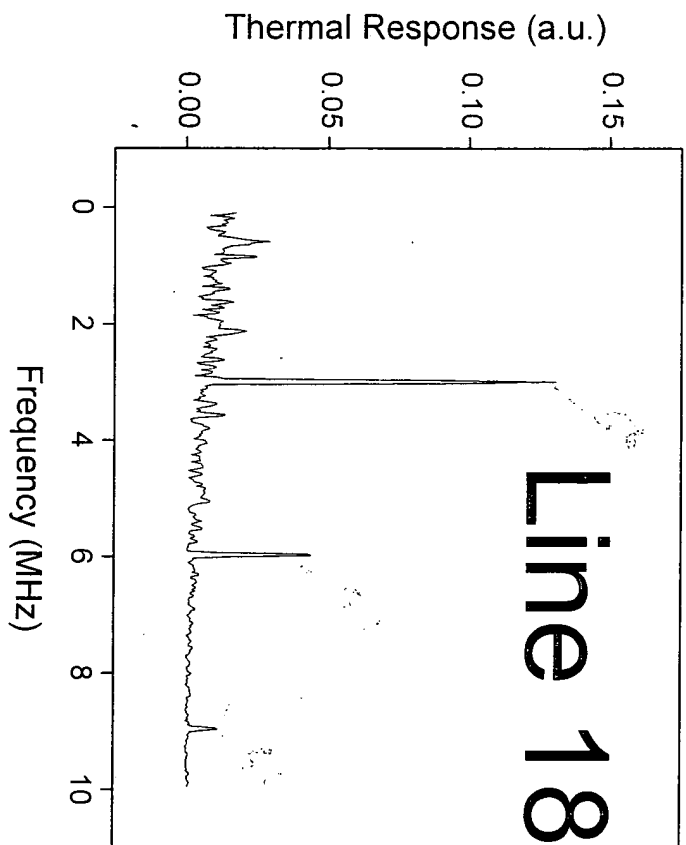
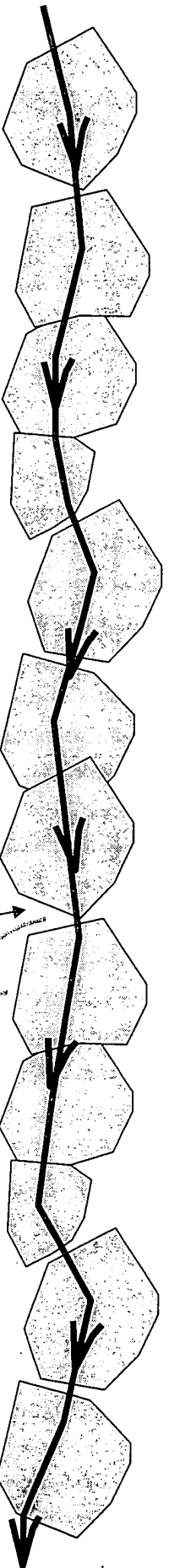




Fig. 110a

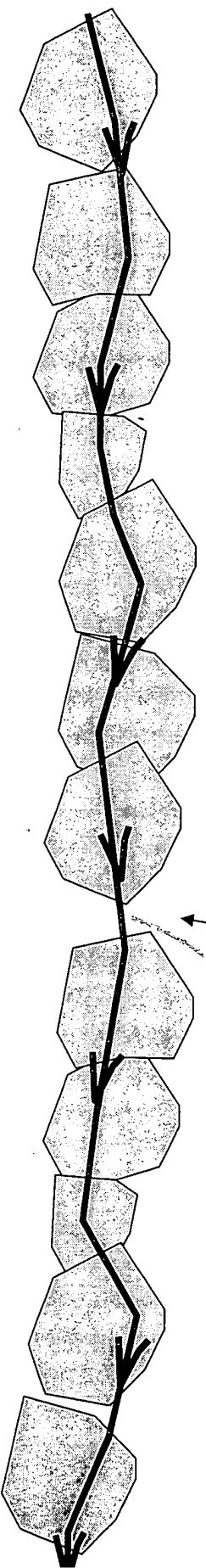


Unstressed discontinuous film

$\delta l$

Gap changed under strain

Fig. 110b



Stressed discontinuous film

$\delta l$